

ABSTRACT OF THE INVENTION

An over-current protection device comprises a positive temperature coefficient material layer, an upper electrode foil, a lower electrode foil, a first metal terminal layer, a second metal terminal layer and at least one insulating layer. The upper electrode foil is disposed on the upper surface of the positive temperature coefficient material layer, and the lower electrode foil is disposed on the lower surface of the positive temperature coefficient material layer. The first metal terminal layer electrically connects the upper electrode foil with at least one non-full-circular conductive through hole and at least one full-circular conductive through hole, and the second metal terminal layer electrically connects the lower electrode foil with at least one non-full-circular conductive through hole and at least one full-circular conductive through hole. The insulating layer isolates the upper electrode foil from the second metal terminal layer and the lower electrode foil from the first metal terminal layer.